



# PATENT SPECIFICATION

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## PROVISIONAL SPECIFICATION

### A New or Improved Dummy for Use in Training for Boxing

I, VAN COBURN, of 18, Oakden Street, Kennington Road, London, S.E.11, a British Subject, do hereby declare the nature of this invention to be as follows:—

This invention comprises a new or improved dummy for use in training for boxing and has for its object to provide a dummy in which a blow on one of the 10 vital spots, if of sufficient pressure, will cause one or both of the arms to be raised to a position of self defence.

The present invention is characterized by a dummy in which the vital spots are 15 connected to the arms of said dummy, so that upon one of these spots being hit, one or both of the arms of the dummy are raised momentarily to an attitude of guard on the striking of a blow.

In carrying the present invention into practice, a dummy is provided in which the vital spots of the human body usually attacked by a boxer, such as the heart, spleen, solar-plexus, liver or angles of the 25 chin, are indicated on the dummy by means of padded plates or buffers which are connected by springs or levers to one or both arms of the dummy so that a blow on any one of these plates or buffers will 30 be immediately communicated to one or both arms, when one or both arms will be raised to an attitude of self defence. If desired springs or other means may be provided in the elbow joints of the dummy 35 so that upon the arms reaching a certain position they will move to strike a blow at the boxer.

Usually the plates or buffers disposed on the right side of the body will be con-

nected with the left arm, whilst those disposed on the left side of the body will be connected to the right arm.

In order that a punch of predetermined weight is administered to the dummy to effect the operation of same, means are provided for adjusting the springs or levers so that a blow of predetermined force must be delivered before the arms of the dummy are operated, whilst indicators may be so arranged as to indicate 50 the force of the blow delivered to the dummy.

The dummy is preferably provided with a spring support between the thigh joint and the ankle so as to be capable of a 55 swaying motion backward and forward.

The dummy may be mounted on a plate, the underside of which is provided with castors in order to provide for its removal to one part or another, or the feet of the 60 dummy may be formed as magnets and the dummy mounted on a metal floor, so that the attraction of the magnets to the floor will be sufficient to retain the dummy in position when hit, but at the same time 65 permit of a restricted sliding movement about the floor.

It is desired not to limit the shape of the dummy to the human form, as dummies of animals or other shapes may 70 be used if so desired.

Dated this 21st day of February, 1946.

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## COMPLETE SPECIFICATION

### A New or Improved Dummy for Use in Training for Boxing

I, VAN COBURN, of 18, Oakden Street, Kennington Road, London, S.E.11, a British Subject, do hereby declare the 75 nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

[Pra]

This invention comprises a new or improved dummy for use in training for 80 boxing and has for its object to provide a dummy in which a blow on one of the vital spots, if of sufficient pressure, will cause one or both of the arms to be raised to a position of self defence. 85

The present invention is characterized by a dummy in which the vital spots are connected to the arms of said dummy, so that upon one of these spots being hit, one or both of the arms of the dummy are raised momentarily to an attitude of guard.

The accompanying drawing shows a diagrammatic perspective view of a dummy according to this invention.

In carrying the present invention into practice as shown upon the accompanying drawing, a dummy is provided, in which three of the vital spots of the human body usually attacked by a boxer, such as the heart, spleen, solar-plexus, liver or angles of the chin, are indicated on the dummy by means of padded plates or the like 2, 3, 4 which are connected by levers to one or both arms of the dummy.

The arms 5 and 6 are pivotally mounted to the body of the dummy 1. The pivot 7 of the arm 5 has connected thereto a lever 8 which is connected to the bell crank lever 9 by the link 10, the bell crank lever 9 being pivoted at 11 to the dummy. The buffer or plate 4 is in turn pivotally connected to the bell crank lever 9 by the link 12.

30 The buffer or plate 2 is also connected to the pivot 7 of the arm 5 by means of the lever 13 secured to the pivot 7 and connected to the bell crank lever 14 by means of the link 15, the bell crank lever being pivoted at 16, which pivot is carried by the body of the dummy. The plate or buffer 2 is in turn connected to the bell crank lever 14 by means of the link 14'.

The arm of the dummy 6 is likewise 40 pivotally mounted to the body 1 on the pivot member 17 which pivot member 17 has mounted thereon a lever 18 which is connected to the bell crank lever 19 by means of the link 20. The bell crank lever 45 19 which is pivotally mounted to the dummy body on the pivot 21 is in turn connected to the plate or buffer 3 by means of the link 22.

50 The levers 8 and 18 may have connected thereto tension springs, the tension thereon being preferably adapted to be adjusted, suitable adjusting means may be provided in order that a punch of a predetermined weight is necessary to be administered to the plates 2, 3 or 4 in order that the levers and the arms 5 and 6 of the dummy are operated.

In use a boxer practicing with a dummy according to this invention would normally aim at the parts of the body indi-

cated by the plates or buffers 2, 3 or 4, which on either of these plates being struck with the requisite force one or other of the arms 5, 6 of the dummy would be raised to an attitude of self defence. 65

The dummy 1 is preferably mounted on a stand 23 which in turn is mounted on a rail track 24, the stand 23 being retained in its normal position by the tension spring 25 so that although the dummy may be struck with a sufficient force to overcome the tension of the spring 25, the dummy will be automatically redrawn to its initial position. 70

The stand 23 if desired, may be connected to a remote control which can be operated from a distance, so that the dummy may be moved towards or away from the individual training, as desired. 75

The dummy 1 may be mounted on the stand 23 with spring connections between the dummy and the stand so as to permit of a limited amount of flexibility between the dummy and the stand, whilst spring supports may be provided between the thigh joints and the ankle so that the dummy will be capable of a certain amount of motion backwards and forwards. 80

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:— 85

1. A device for use in training for boxing, comprising a dummy in which the vital spots are connected to the arms of said dummy, so that upon one of these spots being hit, one or both of the arms of the dummy are raised momentarily to an attitude of guard. 90

2. In a dummy for use in training for boxing according to claim 1, an interconnection of the pivoted arms of the dummy with plates or buffers at the vital spots by means of levers so that upon the plates or buffers being hit the arms of the dummy are raised to an attitude of self defence. 100

3. A dummy for use in training for boxing according to claim 1, mounted upon a stand the movement of which is adapted to be controlled so as to advance or retract the dummy as desired. 110

4. A dummy for use in training for boxing, substantially as described and shown upon the accompanying drawing. 115

Dated this 22nd day of March, 1947.

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[This Drawing is a reproduction of the Original, on a reduced scale.]

